	App	ilcation No.	Applicant(s)	
	10/7	48,250	MULDER, JAN	
Notice of Allowabil		niner	Art Unit	- 1
	Patri	ck G Wamsley	2819	- An
The MAILING DATE of this of All claims being allowable, PROSECUTION herewith (or previously mailed), a Notice of NOTICE OF ALLOWABILITY IS NOT A GR of the Office or upon petition by the applicar	ON THE MERITS IS (OR R Allowance (PTOL-85) or oth RANT OF PATENT RIGHTS	EMAINS) CLOSED in this appear appropriate communications. This application is subject to	plication. If not included will be mailed in due co	l ourse. THIS
1. \square This communication is responsive to				
2. The allowed claim(s) is/are <u>1-40</u> .				
3. The drawings filed on 31 December 2	2003 are accepted by the Ex	aminer.		* *
4. ☐ Acknowledgment is made of a claim a) ☐ All b) ☐ Some* c) ☐ No 1. ☐ Certified copies of the pri	one 'of the: iority documents have been	received.		
2. Certified copies of the pri			national stone audication	
3. ☐ Copies of the certified co International Bureau (PC * Certified copies not received:	T Rule 17.2(a)).			
Applicant has THREE MONTHS FROM TI noted below. Failure to timely comply will THIS THREE-MONTH PERIOD IS NOT E 5. A SUBSTITUTE OATH OR DECLARAINFORMAL PATENT APPLICATION	result in ABANDONMENT.c XTENDABLE. ATION must be submitted. N	of this application. Note the attached EXAMINER	'S AMENDMENT or NO	
6. CORRECTED DRAWINGS (as "repla				
(a) ☐ including changes required by the		atent Drawing Review (PTO-	948) attached	
1) ☐ hereto or 2) ☐ to Paper				e e, y 14
(b) ☐ including changes required by the Paper No./Mail Date	e attached Examiner's Ame	ndment / Comment or in the C	Office action of	
Identifying indicia such as the application each sheet. Replacement sheet(s) should I				ack) of
7. DEPOSIT OF and/or INFORMATI attached Examiner's comment regard				te the
Attachm nt(s) 1. ☑ Notice of References Cited (PTO-892)		5. Notice of Informal P	latent Application (PTO-	152)
2. ☐ Notice of Draftperson's Patent Drawing		6. Interview Summary	(PTO-413),	1027
 Information Disclosure Statements (PT Paper No./Mail Date 12/31/2003 	TO-1449 or PTO/SB/08),	Paper No./Mail Dat 7.		
4. ☐ Examiner's Comment Regarding Requ	irement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allow	ance
of Biological Material		9. Other	*	*
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Application/Control Number: 10/748,250

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REASONS FOR ALLOWANCE & EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Claim 1, line 3: Change "an signal" to – a signal --.

Claim 3, line 2: Delete "ladder."

Claim 14, line 3: Change "an signal" to – a signal --.

Claim 14, line 7: Change "voltage taps" to – voltage tap ---

Claim 27, line 3: Change "an signal" to – a signal --.

Claim 34, line 3: Change "to a the first" to – to the first --.

Claim 40, line 3: Change "an signal" to – a signal --.

Authorization for this examiner's amendment was given in a telephone interview with applicant's representative, Attorney George S. Bardmesser, on 05/11/2004.

The following is an examiner's statement of reasons for allowance: the references of record neither reveal nor render obvious an array of differential amplifiers having interpolated voltage taps wherein inputs are shifted and zero crossings represent the input signal. U.S. Patent 6,573,853 to Mulder; 6,583,747 to van der Goes et al; 6,628,224 to Mulder et al; 6,697,005 to Mulder; and 6,720,798 to Mulder et al are all related to the instant invention. U.S. Patent 6,720,901 to Nakamoto discloses an interpolation circuit having differential amplifiers and voltage dividing element arrays. U.S. Patent 6,714,886 to Sung et al provides an amplifier array and an interpolative resistance ladder. U.S. Patent 3,798,557 to Scott et al describes interpolation of sinusoidal signals using zero-crossing detection techniques.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick G. Wamsley whose telephone number is (571)

272-1814. Send facsimiles to **(703) 872-9306**

Patrick G. Warnsley May 10, 2004